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## Certificate of Analysis Sheet

### Organic Neem Oil

(*Azadirachta indica*)

<b>Trade Name:</b>	Neem Oil Organic	<b>Inci Name:</b>	<i>Melia Azadirachta (Neem)</i> Seed Oil
<b>Cas No:</b>	8002-65-1 / 90063-92-6	<b>Einecs No:</b>	290-052-2
<b>Country of Origin:</b>	India	<b>Country of Manufacture:</b>	India
<b>Manufactured:</b>	August 2019	<b>Shelf Life:</b>	24 Months
<b>Batch number</b>	141019-4	<b>Application:</b>	Cosmetics

#### Description:

The oil is obtained by cold pressing from the seeds of the Neem Tree, *Melia azadirachta L.*, *Meliaceae*

ANALYTICAL DETAILS	UNIT	RANGE	RESULT
Appearance	Organoleptic	Oily liquid	Conforms
Colour	Organoleptic	Brown to greenish-brown	Conforms
Odour	Organoleptic	Characteristic	Conforms
Refractive Index @ 20°C	-	1.450 – 1.490	1.471
Specific Gravity @ 20°C	g/ml	0.905 – 0.975	0.9237
Acid Value	mg KOH/g	≤ 20.0	6.32
Peroxide Value	meq O <sub>2</sub> /kg	≤ 20.0	6.95
Saponification Value	mg KOH/g	≥ 180.0	198.62
Iodine Value	mg/g	55 - 85	72.1
Azadiractin Content	ppm	≥ 1300	1389.36
Flash Point (Closed Cup)	°C	>100°C	Conforms

TYPE	ACID NAME	UNIT	RANGE	RESULT
C14:0	Myristic	%	≤ 1.0	< 0.1
C16:0	Palmitic	%	15 - 25	17.5
C18:0	Stearic	%	10 - 25	18.2
C18:1	Oleic	%	40 - 60	43.8
C18:2	Linoleic	%	10 - 25	18.5

**Storage:** Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

**Shelf Life:** The shelf life is 24 months if unopened. Once opened the shelf life of the oil is limited by temperature, light and oxygen exposure. Any remaining oil should be blanketed with nitrogen and used as soon as possible.